

**AMENDMENTS TO THE CLAIMS**

1. (Previously Presented) Electrochemical compressor system for compressing gases and/or for producing gases by electrolysis, consisting of an electrochemical compressor stack (1) having layering of several electrochemical cells, which are separated from one another in each case by bipolar plates (3; 3'), wherein the bipolar plates have openings for media supply and media discharge (5a, 5b) for the electrochemical cells and the electrochemical cell stack can be placed under mechanical compressive strain in direction (6) of the layering, characterised in that bead arrangements (7; 7') which are resilient are provided at least in some regions to seal the openings (4, 5a, 5b) and/or an electrochemically active region (10) of the electrochemical cells and that the bead arrangement is made from metals.

2 - 42 (Canceled)